

## Prototype Gene Targeting Strategy

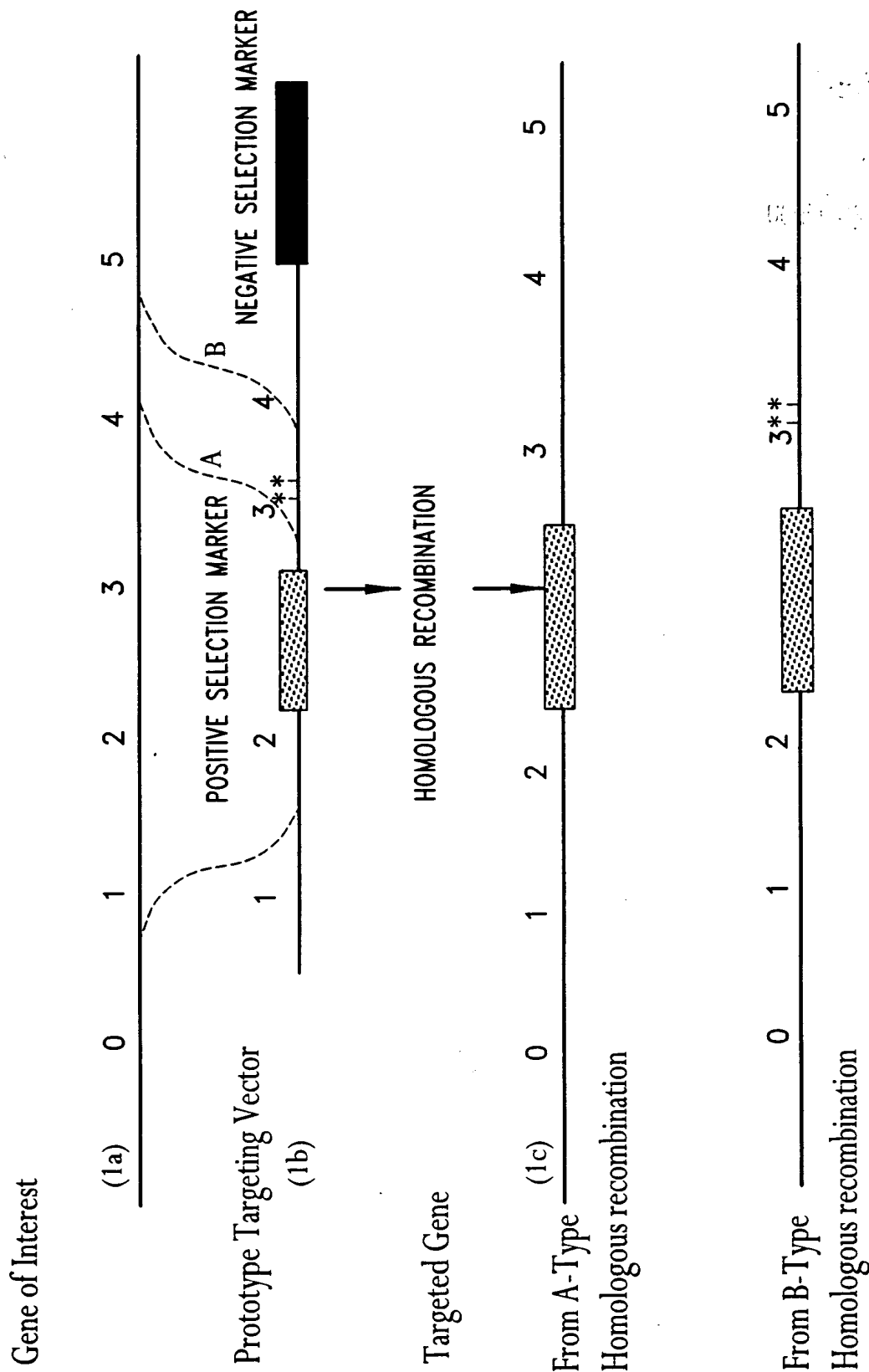


FIG. 1

## Mouse PS-1 Exon 8 Region Genomic Clone Maps

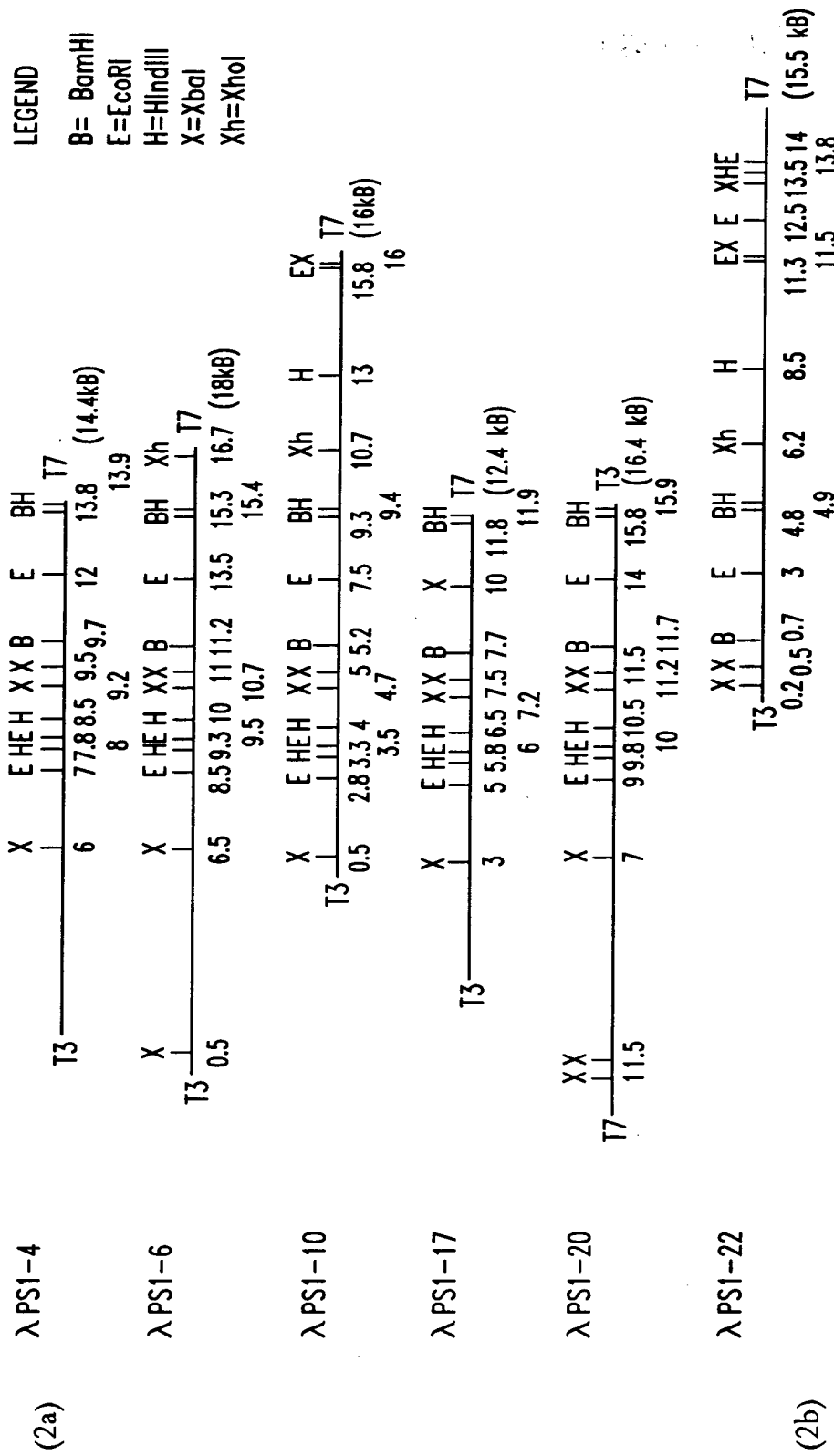


FIG. 2

# Restriction Mapping With FLASH™ Gene Mapping Kit

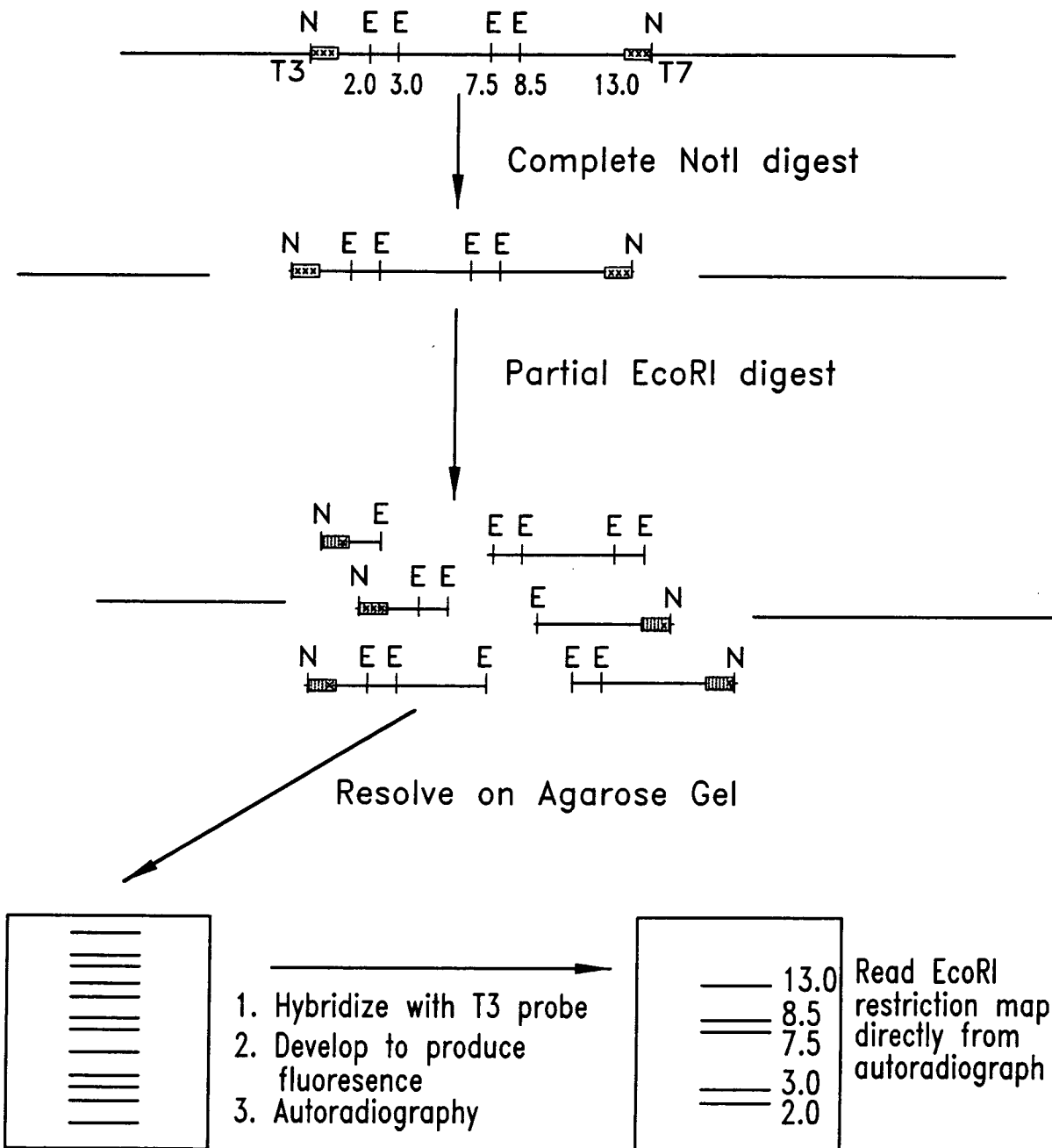


FIG. 3

### Strategy Used to Place Exons 7 and 8 on PSI Restriction Map

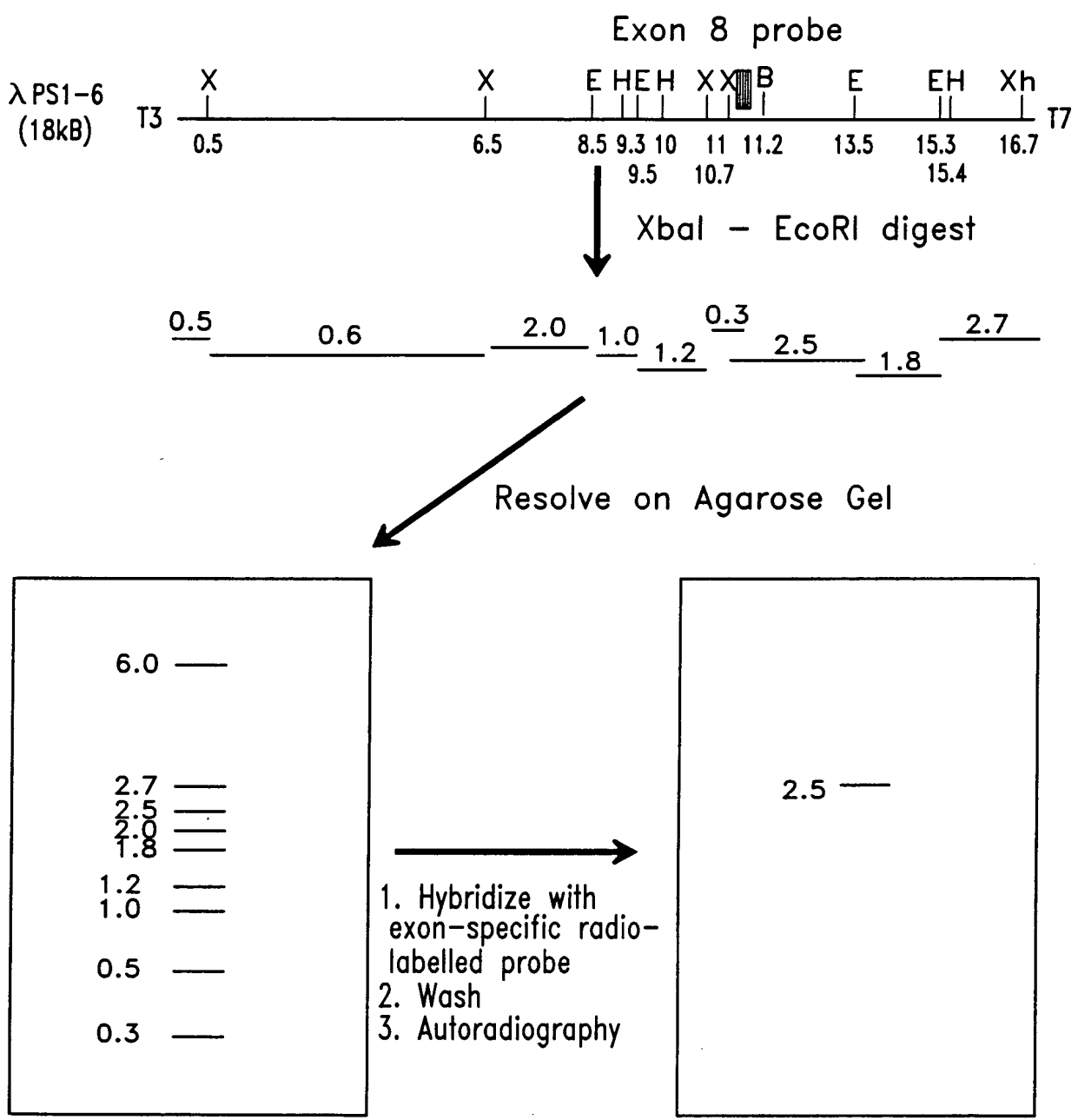
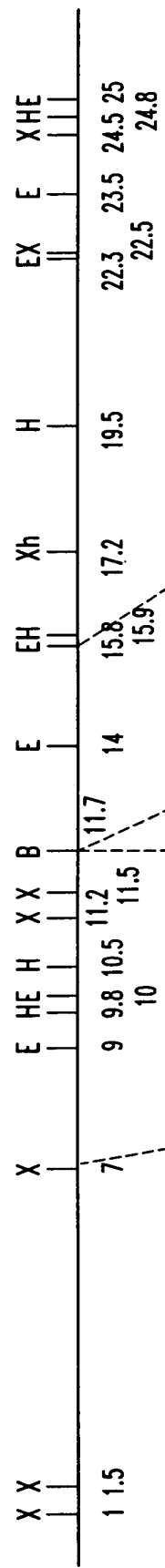


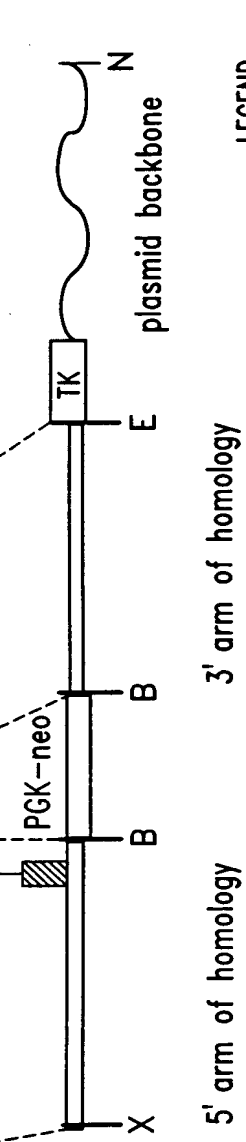
FIG. 4

PS1 Exon 8 Region Genomic Map & pPS1-8-TV Replacement Vector

(5a)



(5b)



- LEGEND
- EcoRI - E
  - HindIII - H
  - XbaI - X
  - XhoI - Xh
  - BamHI - B

FIG. 5

# pPNTlox<sup>2</sup> Synthesis

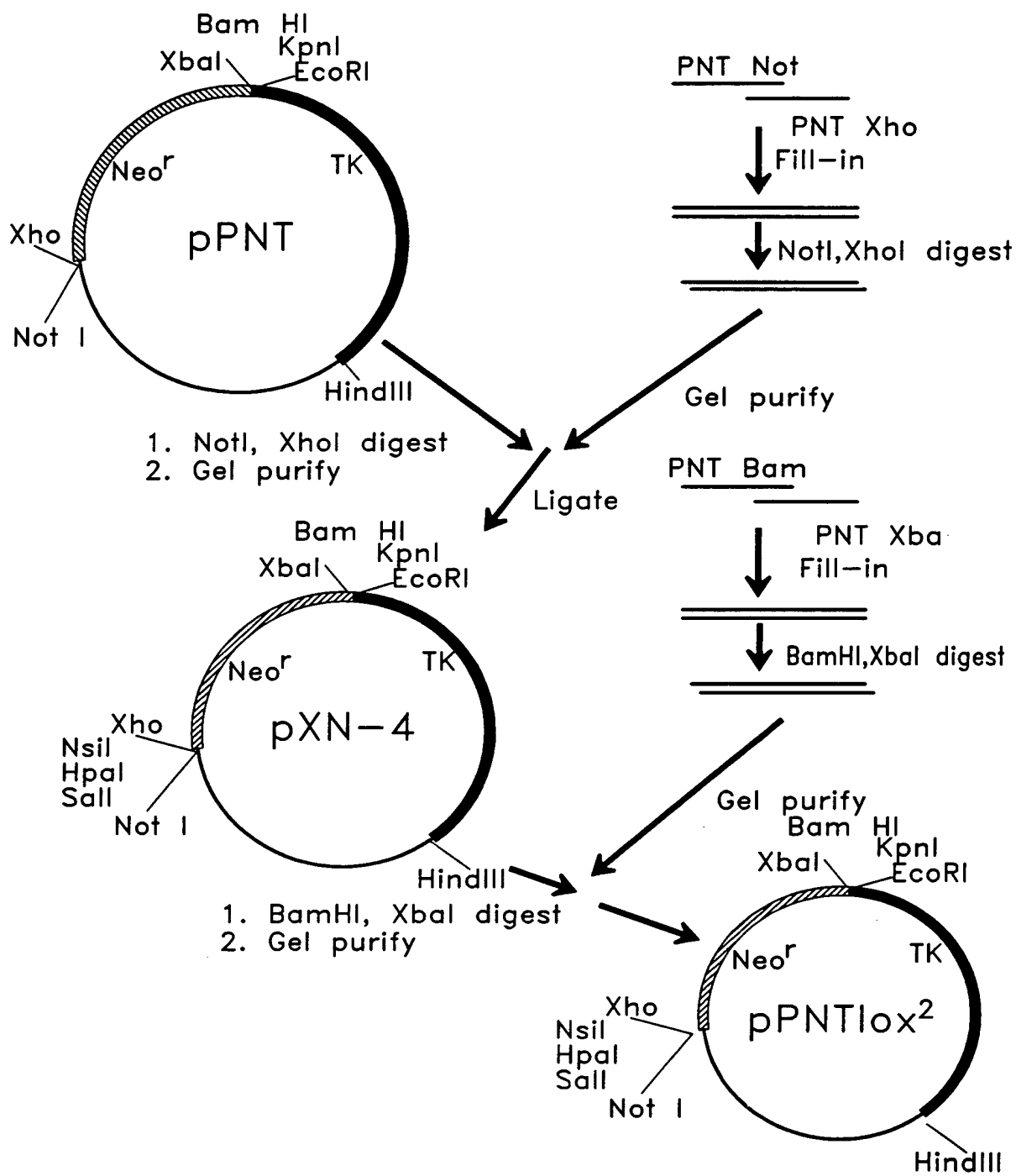


FIG. 6

## pPS1-XH16 Construction

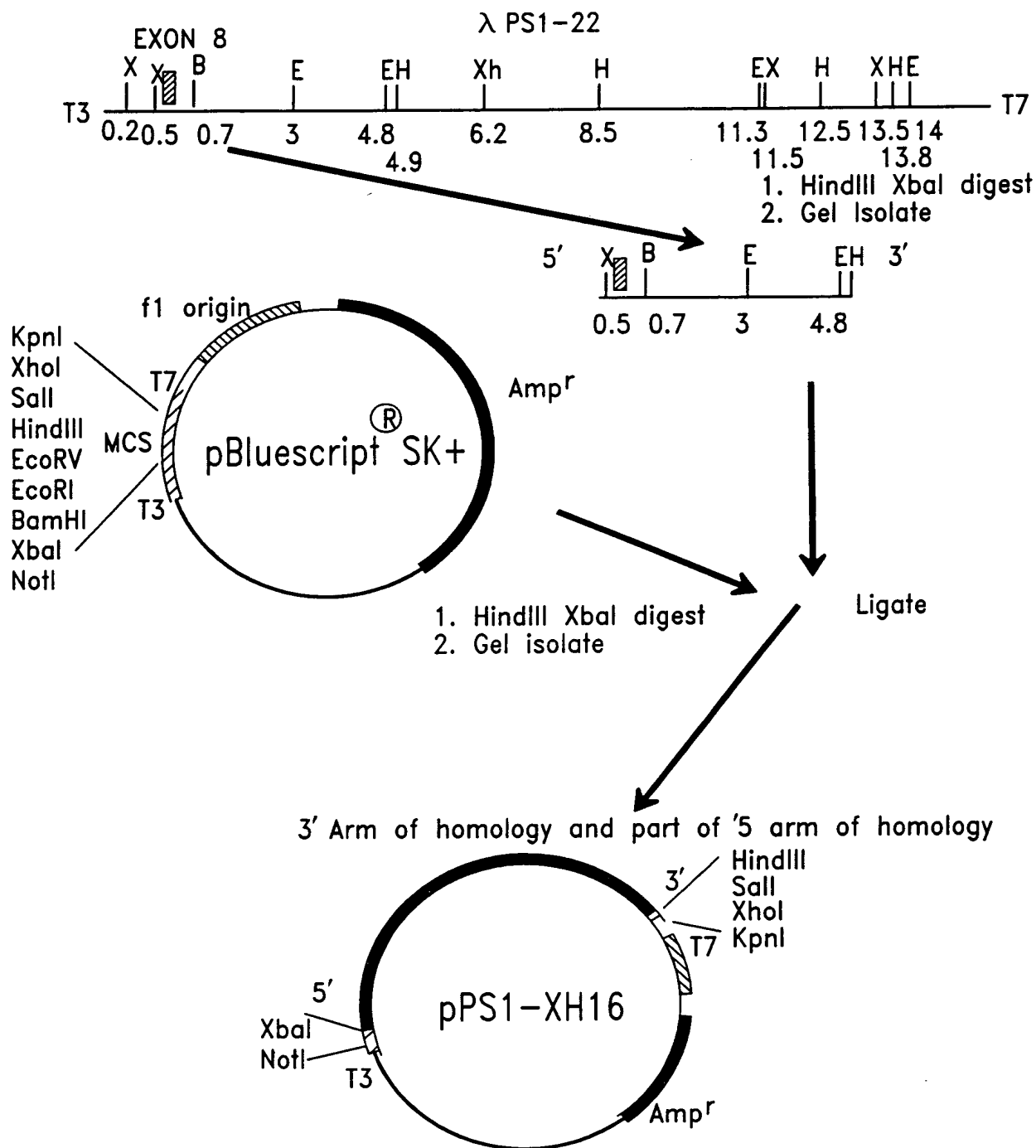


FIG. 7

## pPS1-XB1 Construction

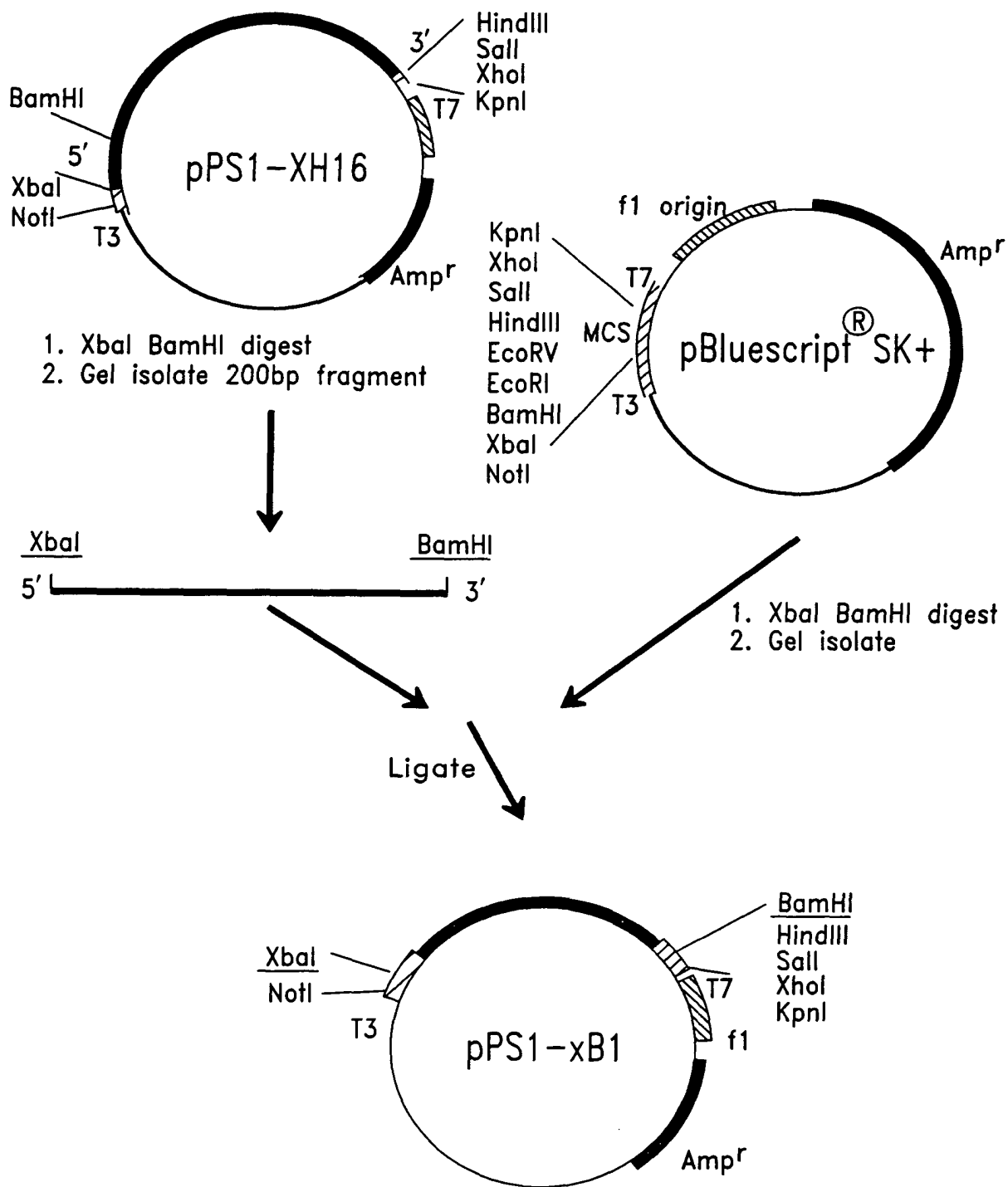


FIG. 8



## pPS1-X15, -X2 Construction

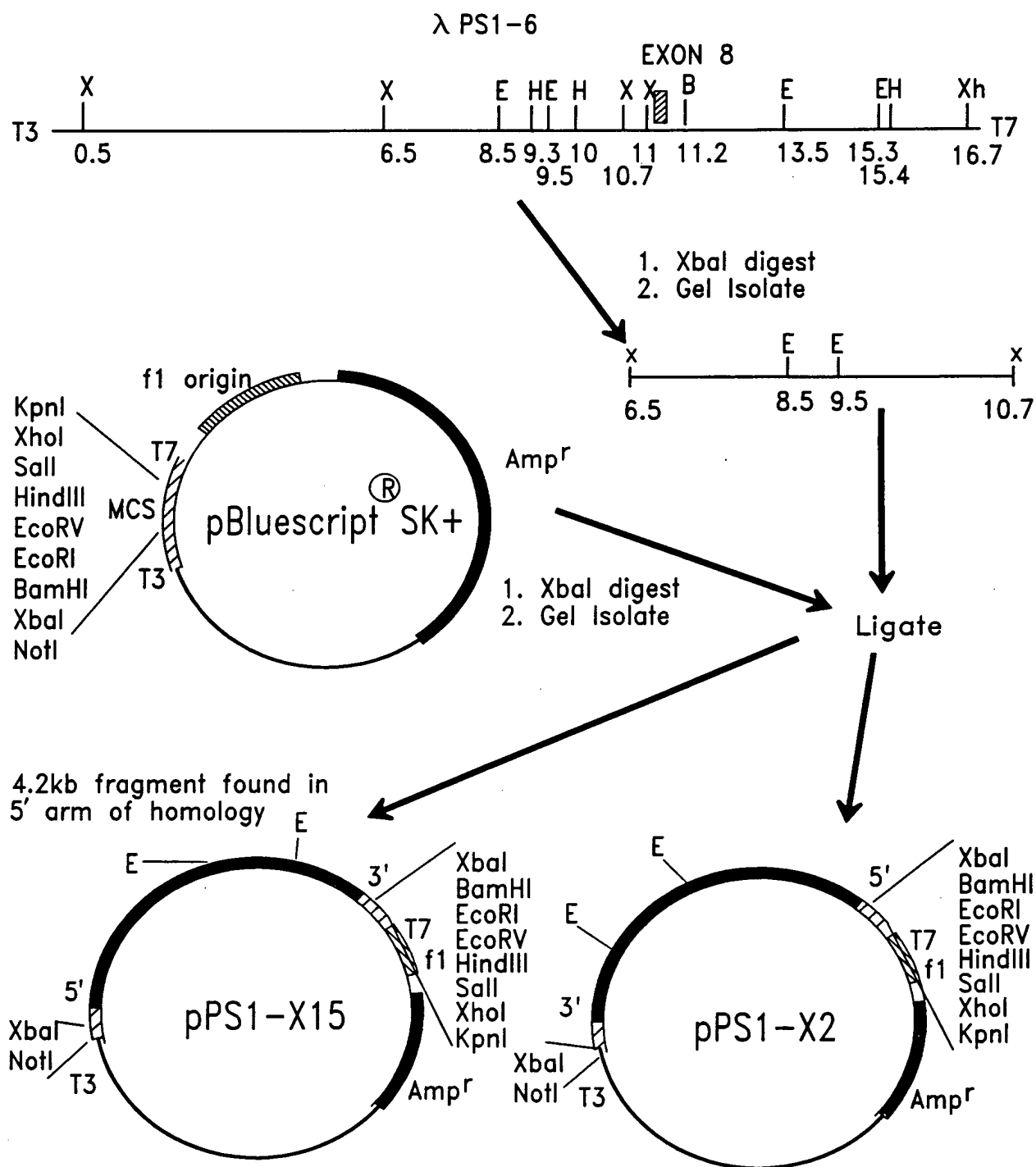


FIG. 9

# pPS1-X319 Construction

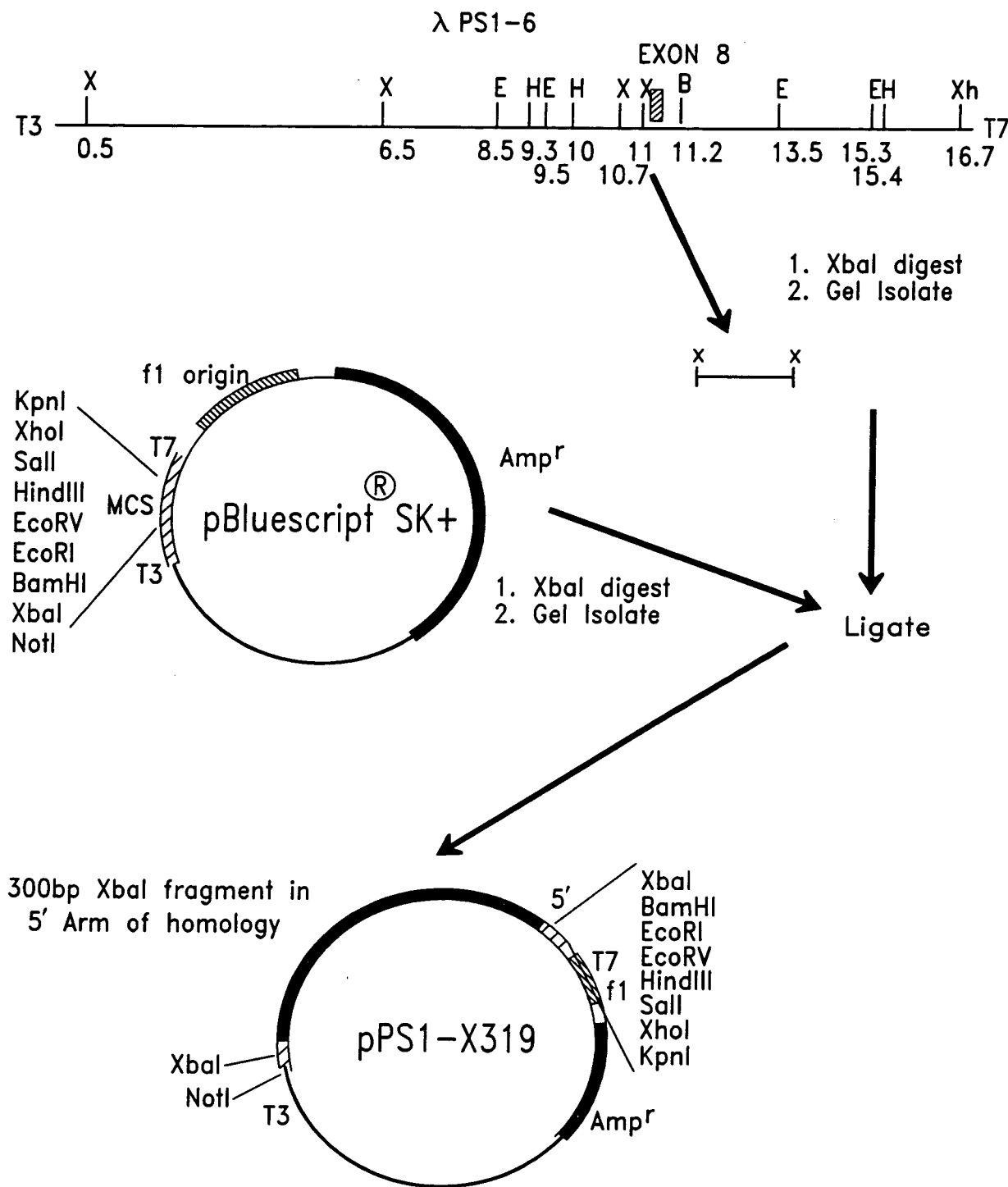


FIG. 10

## Example of Restriction Mapping the 5' Arm of Homology

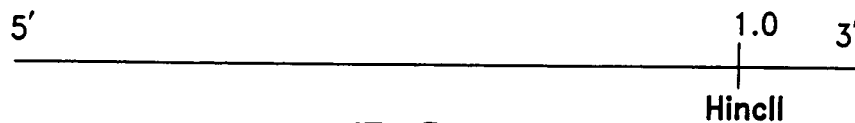
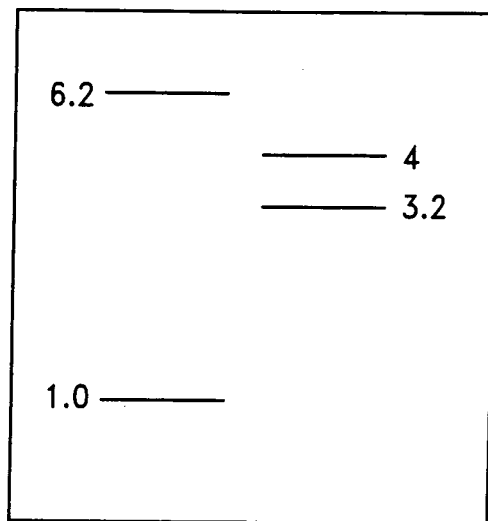
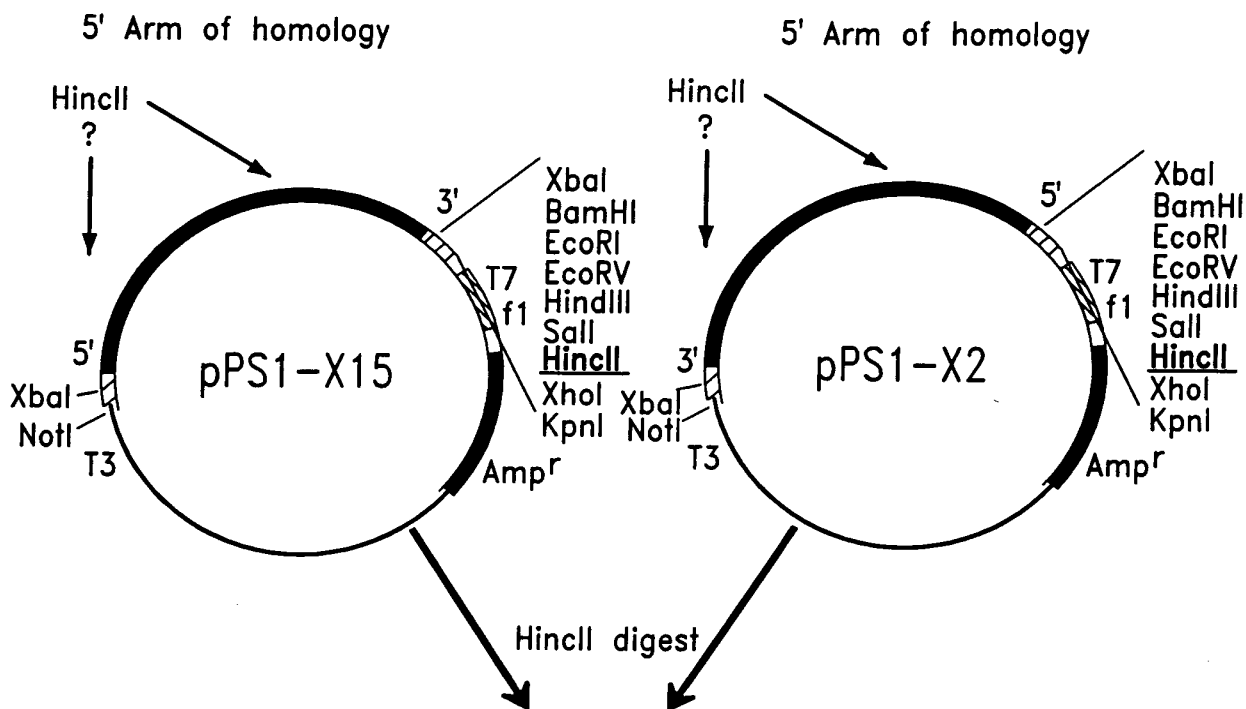


FIG. 11

5' Arm

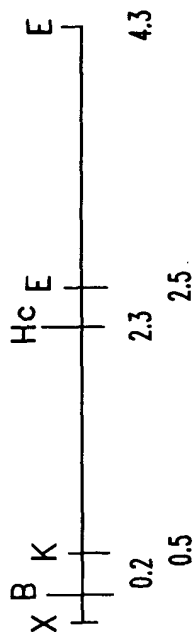
Sall Hpal Apal Spel Kpnl  
Sphl Stul Nsil Pvul

PstI BgIII DraI NcoI PvuII

3' Arm

Sall Spel Smal Apal  
Pvull Pvul Acci

StuI BglII PstI NcoI DraI SphI



E - EcoRI  
H - HindIII  
X - XbaI  
Hc - HincII  
K - KpnI  
Af - AflII  
B - BamHI  
Sm - SmaI

FIG. 12

# PS-1 Exon 8 Mutagenesis

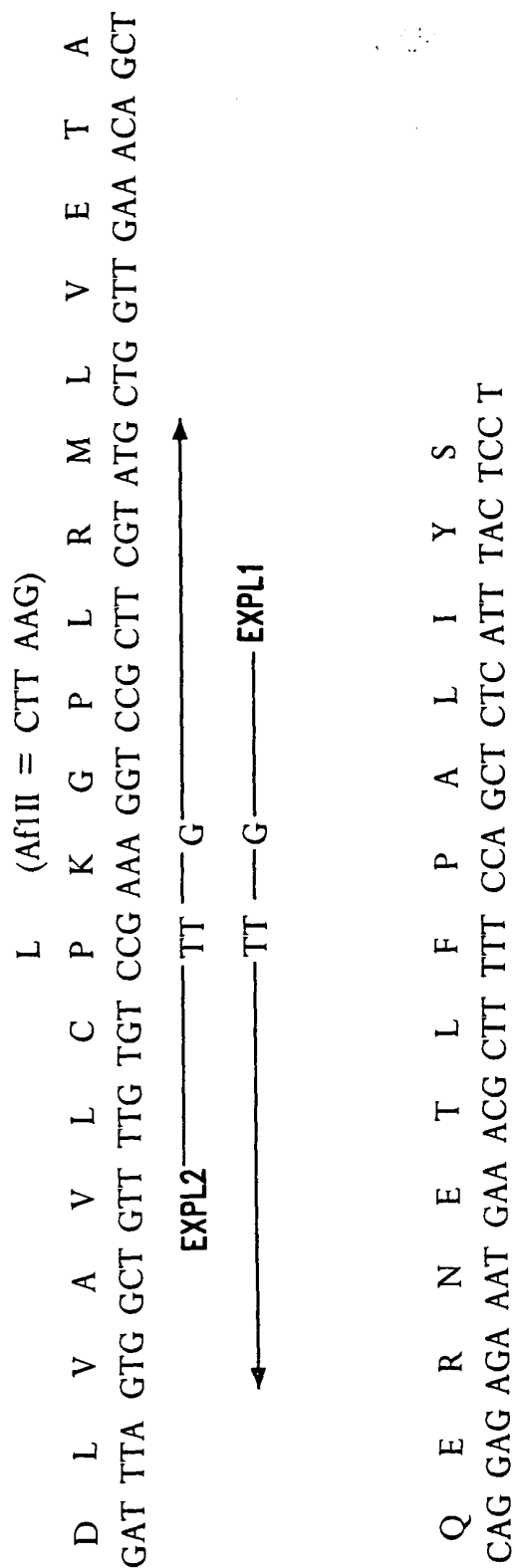


FIG. 13

## pPS1-XB85 Construction

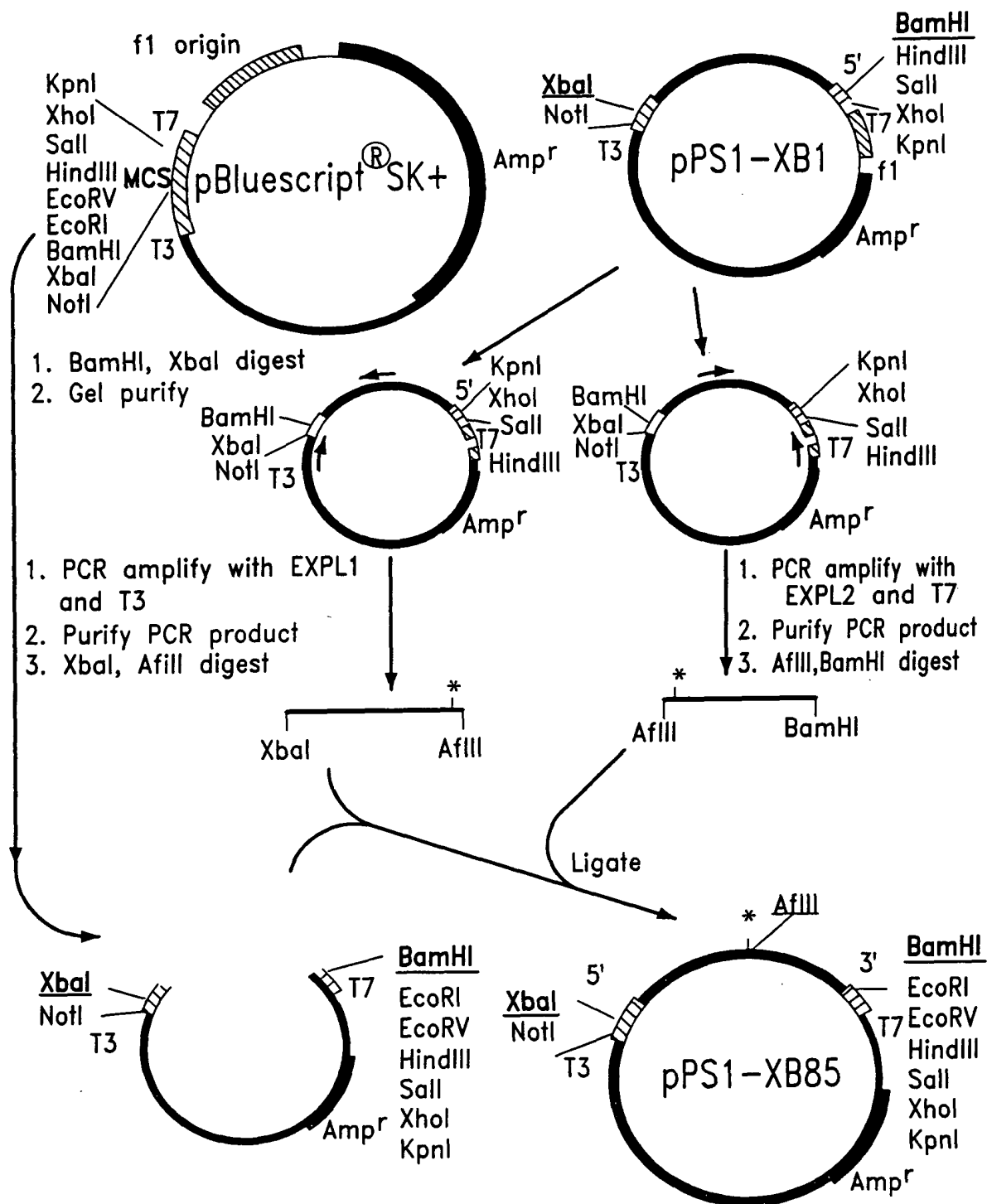


FIG. 14

## pPS1-206 Construction

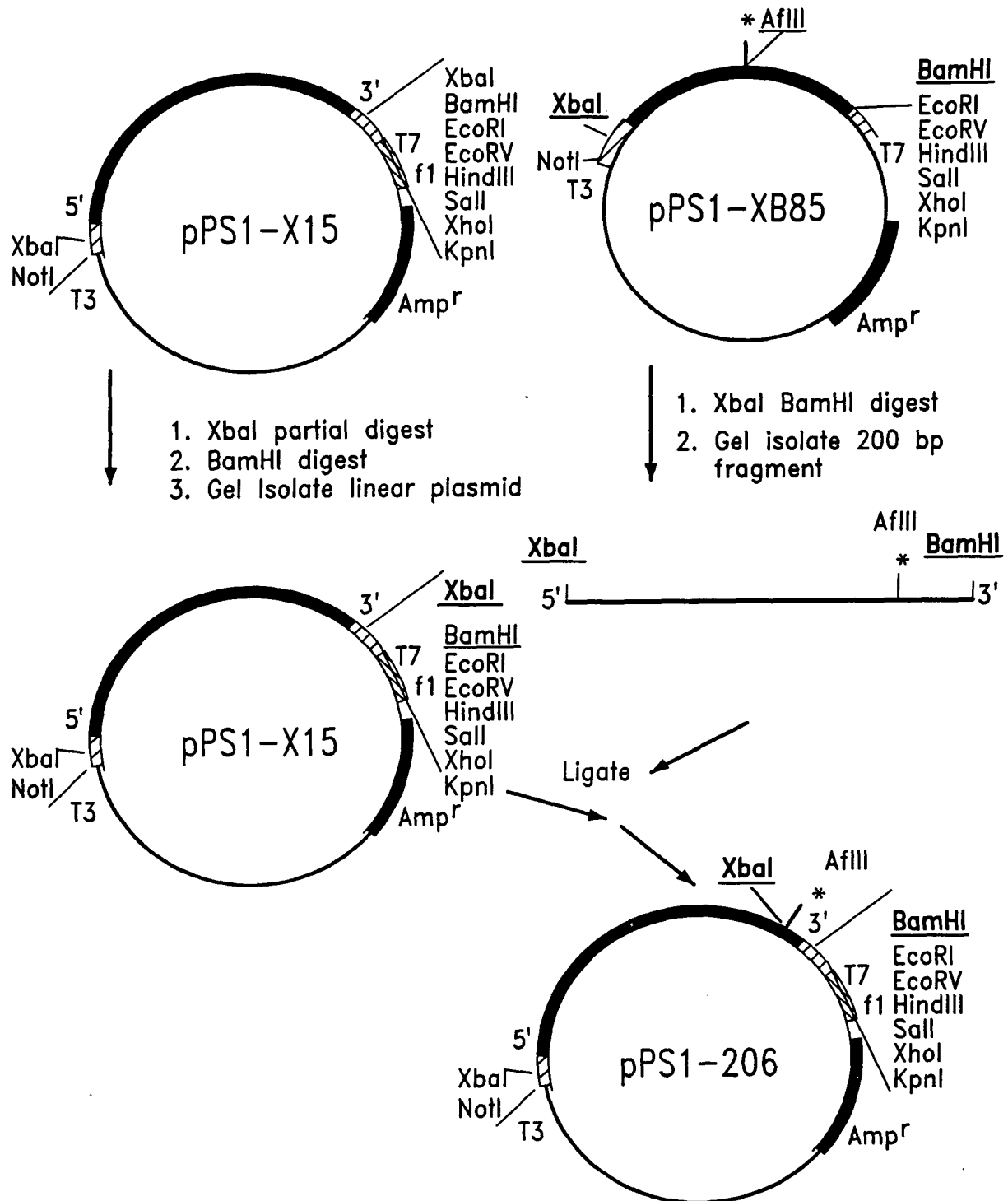


FIG. 15

## pPS1-360 Construction

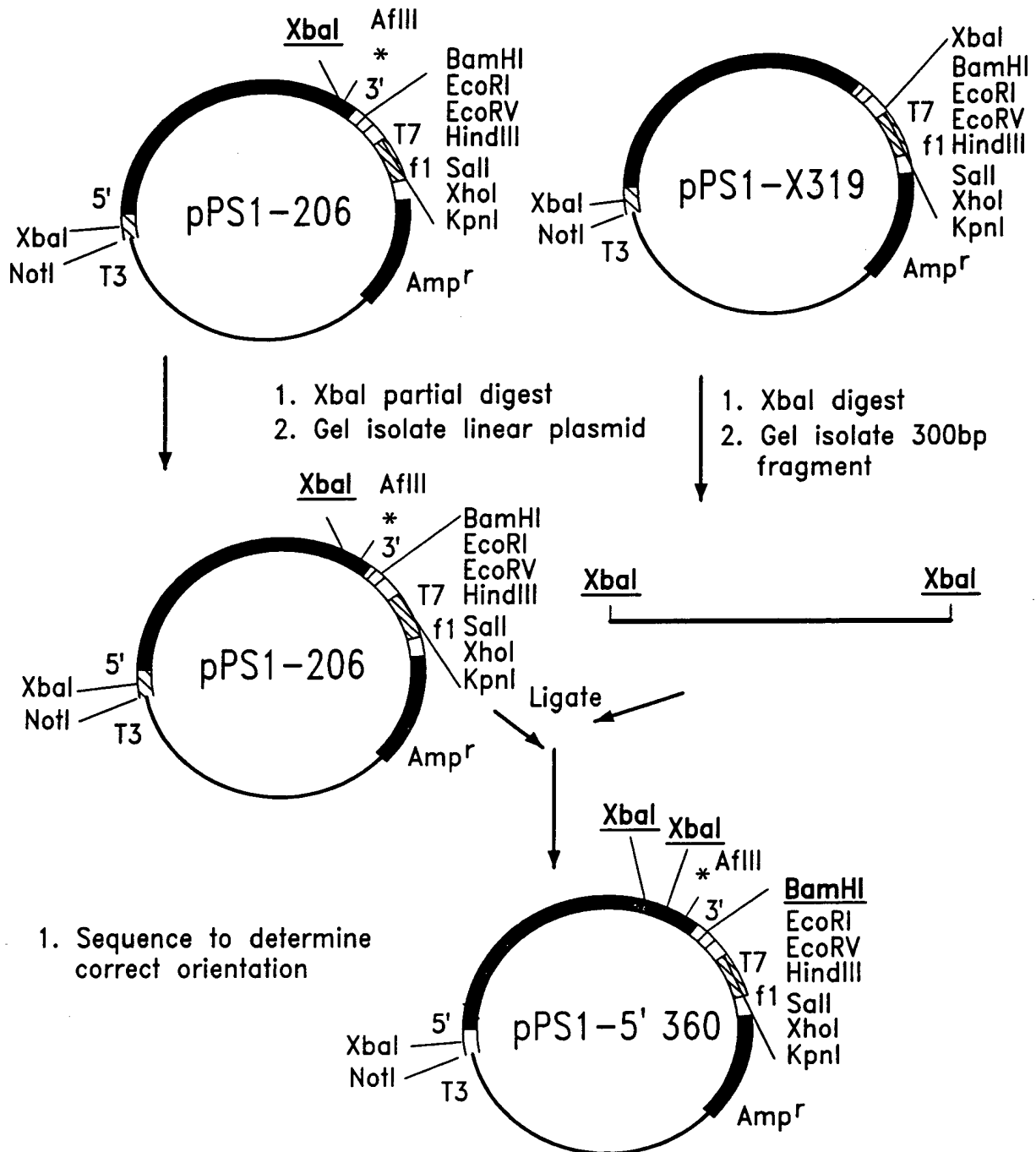


FIG. 16



## pPNT3'413 Construction

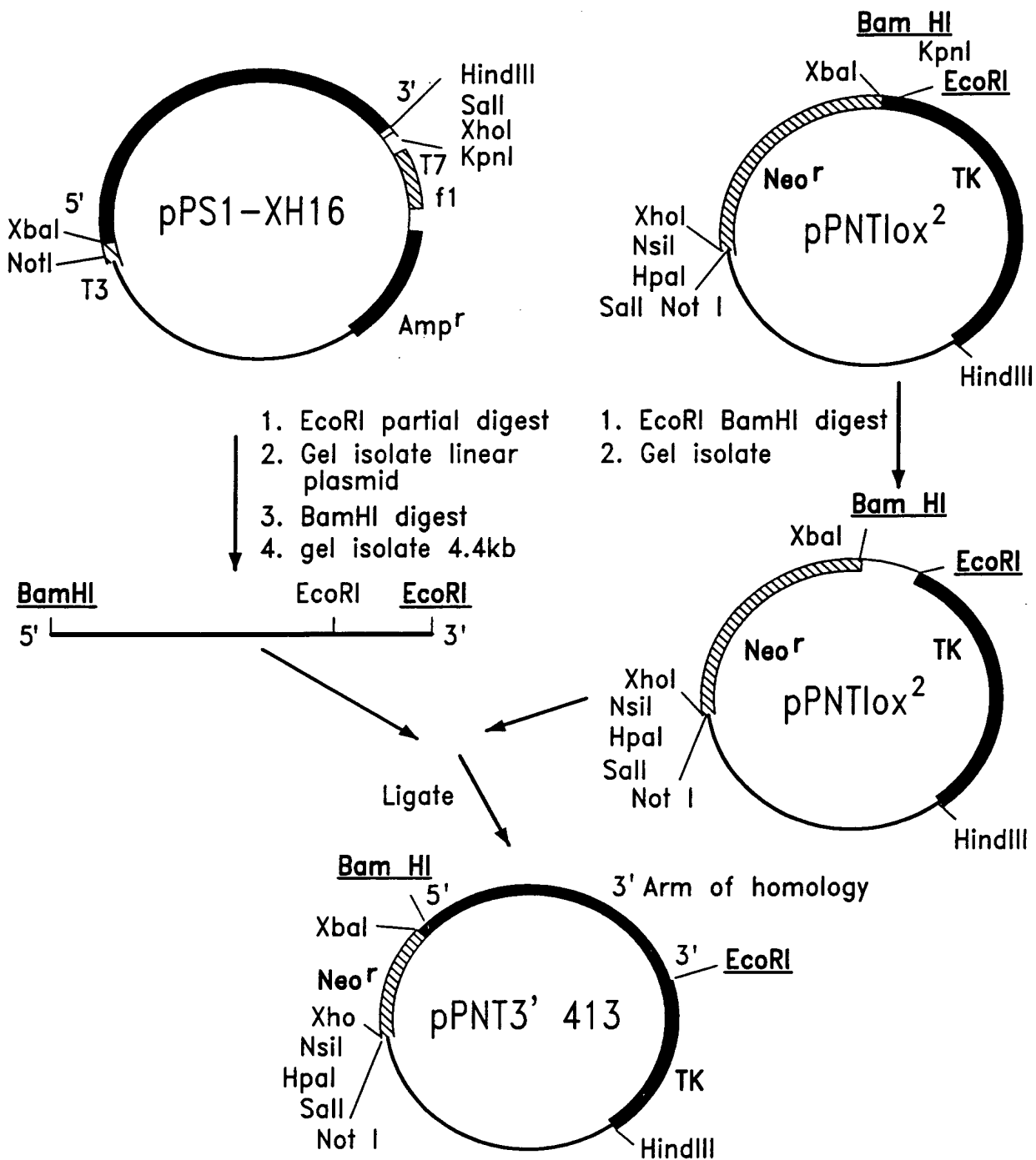


FIG. 17

## pPS1-8-TV Construction

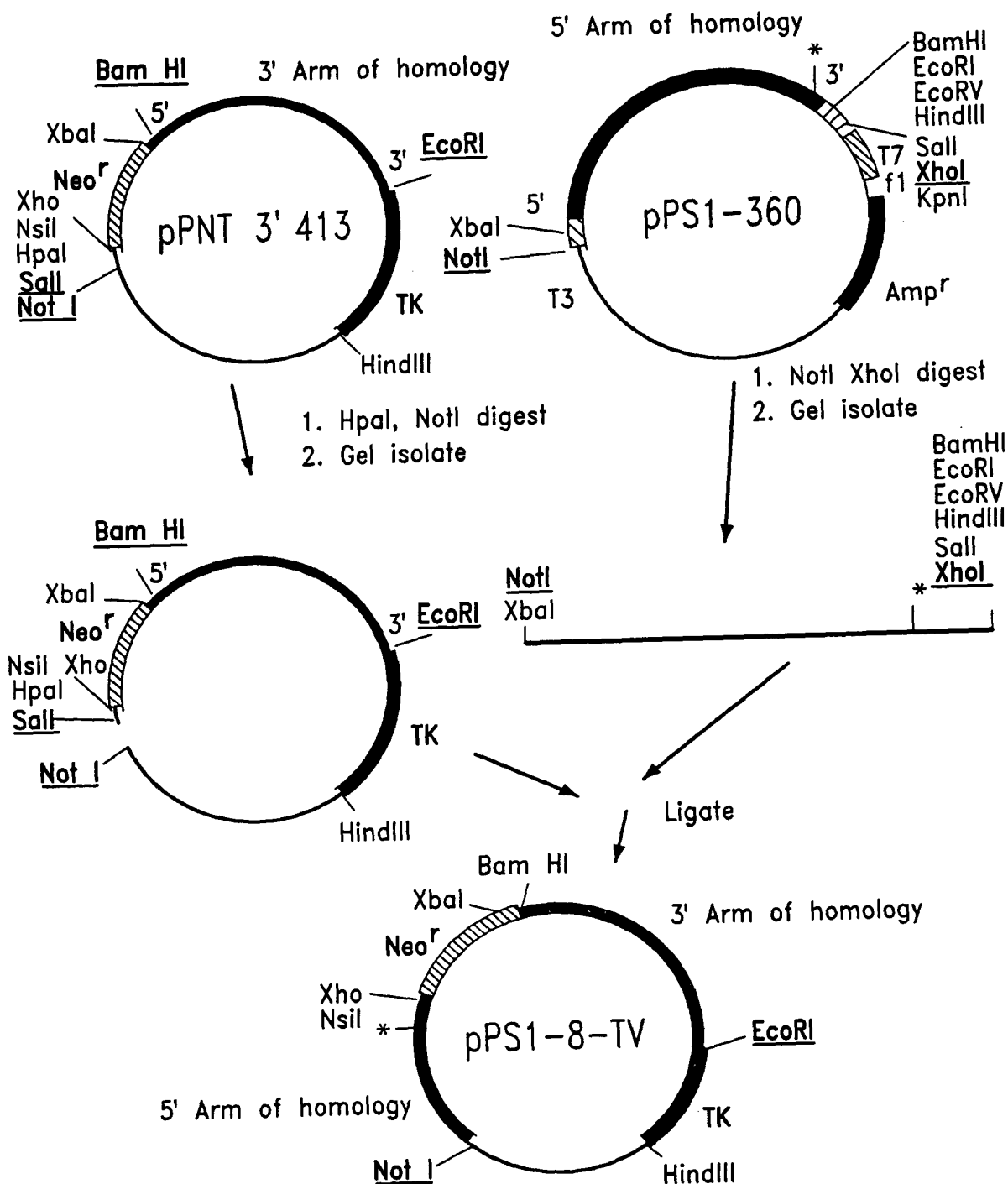


FIG. 18

# Strategy to detect homologous recombination within mouse PS1

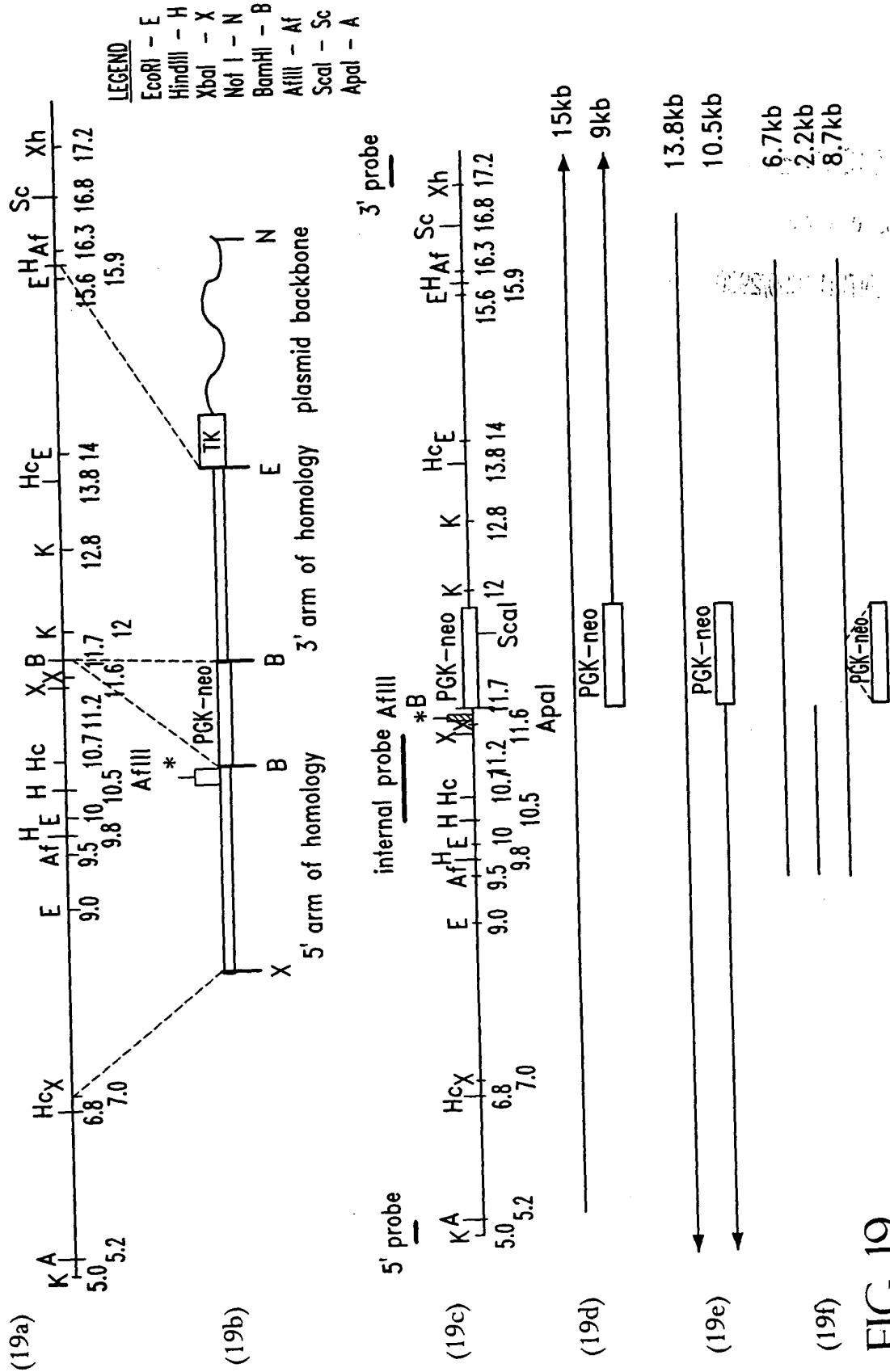


FIG. 19